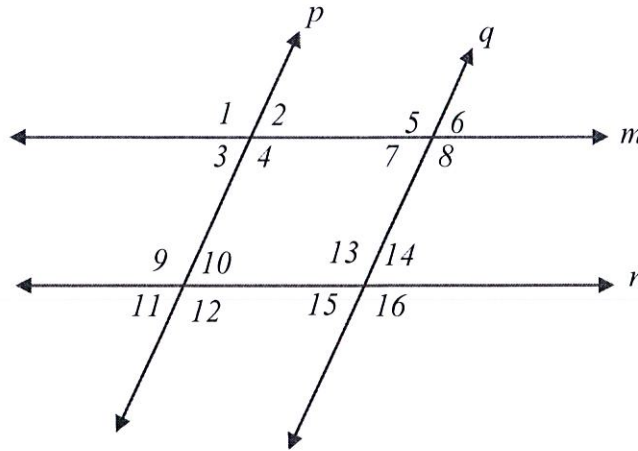


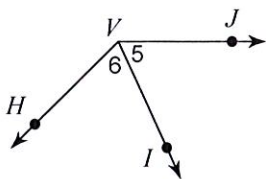
FINAL REVIEW: Topic 2 – Angles



Using the diagram above and given that line  $m$  is parallel to line  $n$ :

1. Name a pair of alternate interior angles.  $\angle 3 + \angle 10$  OR  $\angle 9 + \angle 4$  OR  $\angle 7 + \angle 14$  OR  $\angle 13 + \angle 8$
2. Name a pair of corresponding angles.  $\angle 1 + \angle 9$  OR  $\angle 11 + \angle 3$  OR  $\angle 6 + \angle 14$  PLUS MORE!
3. Name a pair of vertical angles.  $\angle 9 + \angle 12$  OR  $\angle 11 + \angle 10$  OR  $\angle 1 + \angle 4$  PLUS MORE!
4. If  $m\angle 11 = 80^\circ$ , what is the measure of  $\angle 10$ ? How do you know?  
 $80^\circ$  b/c they are vertical angles (which are  $\cong$ )
5. If  $m\angle 11 = 80^\circ$ , what is the measure of  $m\angle 12$ ? How do you know?  
 $100^\circ$  b/c they are supplementary
6. Are lines  $p$  and  $q$  parallel? Explain why or why not.

6. Using the diagram below, name three angles with the vertex V.

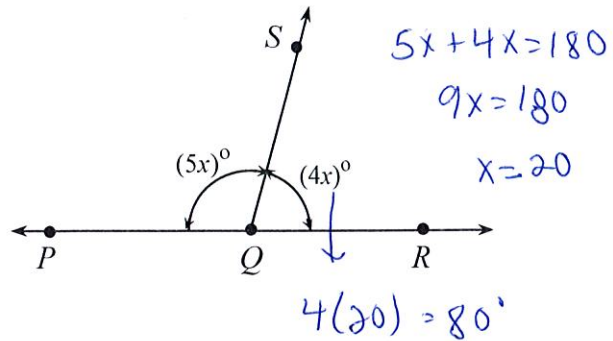


$\angle HVI$ ,  $\angle HVJ$ ,  $\angle JVI$

**WLPCS**  
**Geometry**

In the figure on the right, points  $P$ ,  $Q$  and  $R$  are collinear. What is the measure of  $\angle RQS$ ?

- A.  $40^\circ$       B.  $20^\circ$       C.  $80^\circ$   
D.  $50^\circ$       E.  $100^\circ$



8.

If  $\angle A$  and  $\angle B$  are complementary,  $\angle B$  and  $\angle C$  are supplementary, and  $m\angle A = 64^\circ$ , then what is the measure of  $\angle C$ ?

- A.  $64^\circ$       B.  $180^\circ$       C.  $26^\circ$       D.  $90^\circ$

E.  $154^\circ$

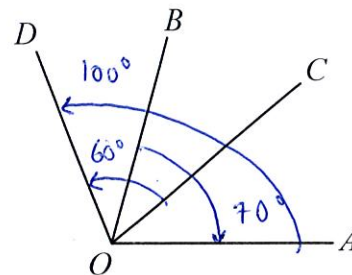
$$\begin{aligned} m\angle A + m\angle B &= 90^\circ \\ 64^\circ + m\angle B &= 90^\circ \\ m\angle B &= 26^\circ \\ m\angle B + m\angle C &= 180^\circ \\ 26^\circ + m\angle C &= 180^\circ \\ m\angle C &= 154^\circ \end{aligned}$$

9.

In this figure,  $m\angle AOB = 70^\circ$ ,  $m\angle COD = 60^\circ$ , and  $m\angle AOD = 100^\circ$ . What is  $m\angle COB$ ?

- A.  $10^\circ$       B.  $65^\circ$       C.  $35^\circ$

- D.  $60^\circ$       E.  $30^\circ$



**Problems 14-16:** Refer to the figure on the right, in which  $M$ ,  $R$  and  $Q$  are collinear and  $m\angle MRN = 90^\circ$ :

C

14. Which of the following is a *straight angle*?

- A.  $\angle MRN$       B.  $\angle PMR$       C.  $\angle MRQ$   
D.  $\angle PRN$       E.  $\angle NTR$

B

15. Which of the following is an *obtuse angle*?

- A.  $\angle MRQ$       B.  $\angle PRN$       C.  $\angle NTR$       D.  $\angle MRN$       E.  $\angle PMR$

A

16. Which of the following angles is *adjacent* to  $\angle NRT$ ?

- A.  $\angle QRT$       B.  $\angle MRT$       C.  $\angle PRM$       D.  $\angle PRN$       E.  $\angle PMR$

